SunLong Biotech Co.,LTD
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Rabbit Anti-phospho-Histone H3 (Ser10) antibody

SL60071R

Product Name	phospho-Histone H3 (Ser10)
Chinese Name	磷酸化组蛋白 H3 抗体
Alias	Histone H3 (phospho S10); Phospho-Histone H3(Ser10); Histone H3(Phospho-Ser10); Histone H3(p-Ser10); Histone H3(Phospho-S10); H3S10ph; H3 histone family member E pseudogene; H3 histone family, member A; H3/A; H31_HUMAN; H3F3; H3FA; Hist1h3a; HIST1H3B; HIST1H3C; HIST1H3D; HIST1H3E; HIST1H3F; HIST1H3G; HIST1H3H; HIST1H3I; HIST1H3J; HIST3H3; histone 1, H3a; Histone cluster 1, H3a; Histone H3 3 pseudogene; Histone H3.1; Histone H3/a; Histone H3/b; Histone H3/c; Histone H3/d; Histone H3/f; Histone H3/h; Histone H3/i; Histone H3/j; Histone H3/k; Histone H3/l; H3.1; H3/d; H3C1; H3C10; H3C11; H3C12; H3C2; H3C3; H3C4; H3C7; H3C8; H3FD;
Product Type	Phosphorylated anti
Research Area	Chromatin and nuclear signals Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse,Rat
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:400-800,IF=1:100-500,IP=1:25-100 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	15kDa
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthesised phosphopeptide derived from human Histone H3 around the phosphorylation site of Ser10: RK(p-S)TG

Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product Detail	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is located separately from the other H3 genes that are in the histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015] **Function:** Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. H3 is deposited into chromatin exclusively through a DNA replication-coupled pathway that can be associated with either DNA duplication or DNA repair synthesis during meiotic homologous recombination. **Subunit:** The nucleosome is a histone octamer containing two molecules each of H2A, H2B, H3 and H4 assembled in one H3-H4 heterotetramer and two H2A-H2B heterodimers. The octamer wraps approximately 147 bp of DNA. Interacts with GCN5, whereby H3S10ph increases histone-protein interactions. Interacts with PDD1 and PDD3. **Subcellular Location:** Nucleus. Chromosome. Note=Localizes to both the large, transcriptionally active, somatic macronucleus (MAC) and the small, transcriptionally inert, germ line micronucleus (MIC).

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Similarity:
Belongs to the histone H3 family.

SWISS:
P68431

Gene ID:
8350

Database links:

Entrez Gene: 8350 Human

Entrez Gene: 319152 Mouse

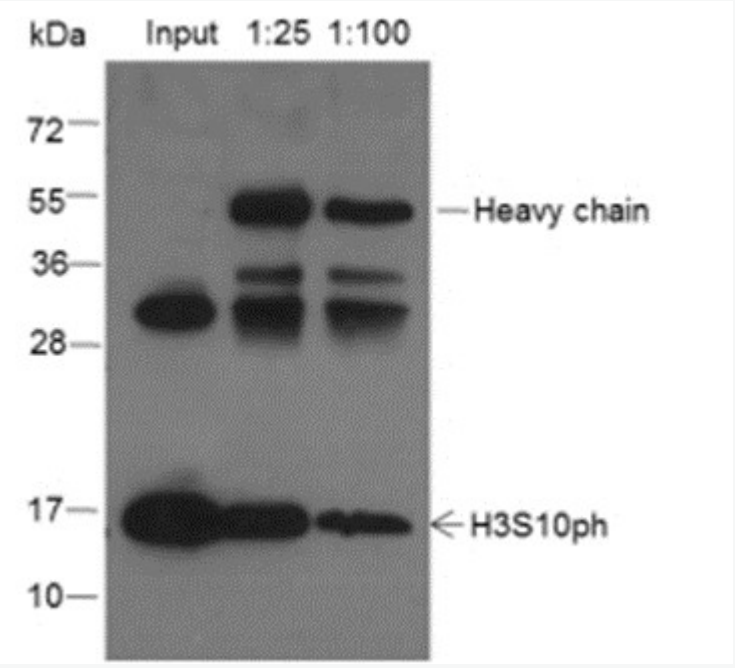
Entrez Gene: 679994 Rat

SwissProt: P68431 Human

SwissProt: P68433 Mouse

SwissProt: Q6LED0 Rat

Product Picture



IP of HeLa+ Nocodazole (100ng/ml, 18hr) +

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Calyculin A (100nM, 1hr) cells extracts

IP Ab incubation condition: SL60071R, 4°C

overnight, 1:25, 1:100 dilution

WB primary Ab incubation condition: SL60071R

, room temperature 2h, 1:1000 dilution

Secondary Ab: Anti-Rabbit IgG for IP (HRP)

Blocking buffer and concentration: 5%

NFDM/TBST

Diluting buffer and concentration: 5%

NFDM/TBST

Lane 1: 5% Input

Lane 2: IP with SL60071R (1:25)

Lane 3: IP with SL60071R (1:100)

Observed MW: 17 kDa

Exposure time: 30 s

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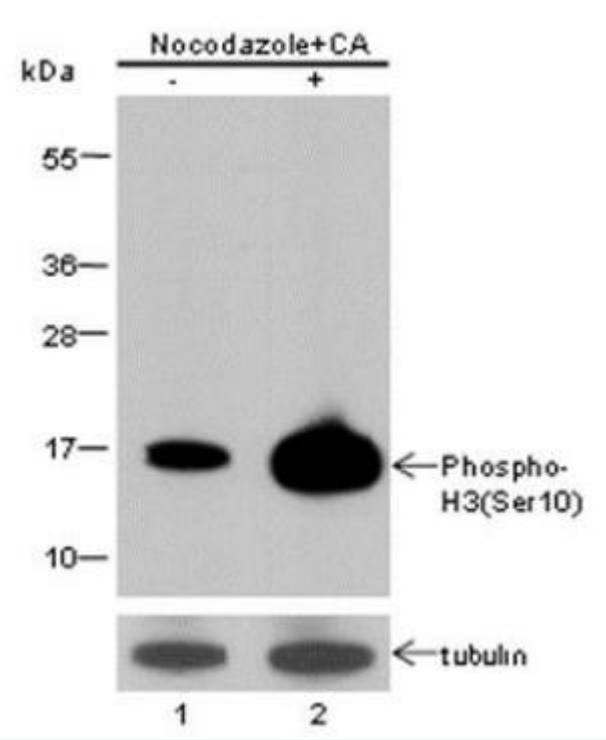

Blocking buffer: 5% NFDM/TBST

Primary Ab dilution: 1:2000

Primary Ab incubation condition: 2 hours at

room temperature

Secondary Ab: Goat Anti-Rabbit IgG H&L

(HRP)

Lysate: (-) HeLa, (+) HeLa+ Nocodazole

(100ng/ml, 18hr) + Calyculin A (100nM, 1hr)

Protein loading quantity: 20 µg

Exposure time: 30 s

Predicted MW: 17 kDa

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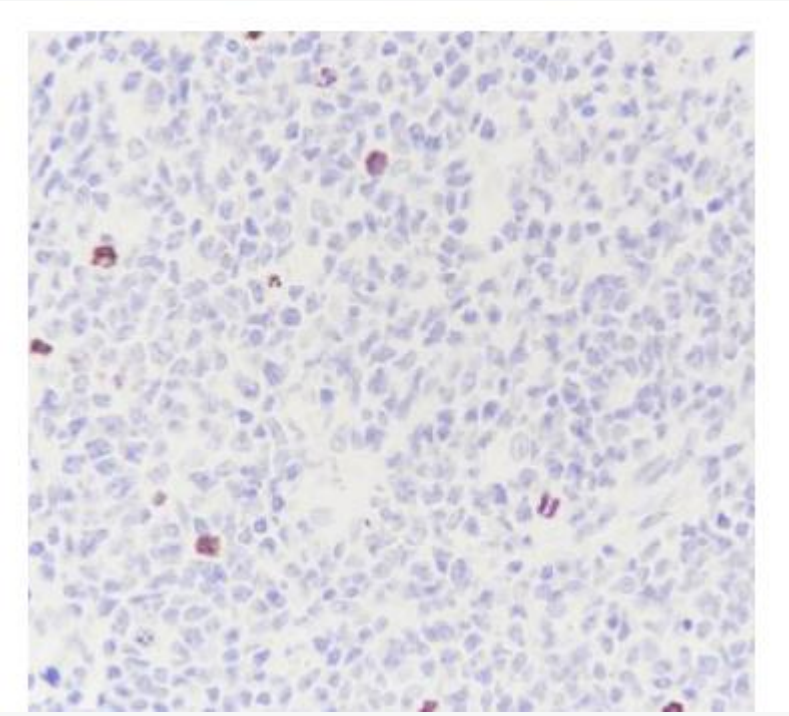
Observed MW: 17 kDa



Tissue: Human tonsil

Section type: Formalin fixed & Paraffin -

embedded section

Retrieval method: High temperature and high

pressure

Retrieval buffer: Tris/EDTA buffer, pH 9.0

Primary Ab dilution: 1:2000

Primary Ab incubation condition: 1 hour at

room temperature

Secondary Ab: Anti-Rabbit and Mouse Polymer

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HRP (Ready to use)

Counter stain: Hematoxylin (Blue)

Comment: Color brown is the positive signal for SL60071R